

PP Series – PP Micro Fiber



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- Absolute micron ratings of 0.2 to 50 (Absolute rating 99.9%)
- Available in sizes 10", 20", 30" and 40".
- Certified by USP XXIII and FDA CFR Title 21
- 100% Polypropylene allows compatibility with most process fluids
- Pleated surface provides superior flow rate and extended service life
- Micro-denier melt blown fiber provides high removal ratings
- Double-layers structure allows
 - Absolute particle retention
 - High holding capacity
 - Longer service life
 - Lower pressure drop
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room
- Pre-flush with 18 meg ohm-cm DI water, TOC content is lower than 40 ppb
- Recommended uses
 - Water treatment – Pre-filtration
 - Electronics – Cleaning process
 - Film – Fixative
 - Chemical – Low viscosity solution
 - Beverage – Clarification
 - Machine – Recycled water



Suggested equivalent products

- Mykrolis Polygard-CN
- Pall HDC II Filter
- Pall Ultipleat Profile
- PTI Poly Flow-G
- CUNO Betafine D
- CUNO Polypro
- Filterite Poly-Fine II

Specifications

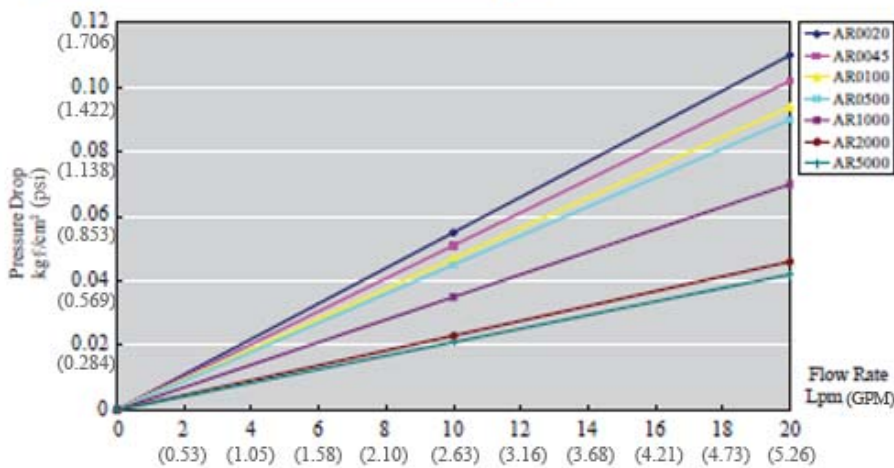
Item	Technical data
Micron ratings Absolute (micro)	0.2 0.45 1 5 10 20 50
Material of media	100% Melt Blown Micron-denier Polypropylene Fiber
Core & End Cap Material	PP
O-ring Material	EPDM, Buan N, Silicone, Viton, PFA encapsulated Viton
Filtration Area (sq ft)	Type I > 4.3, Type II > 5.3
Length (inch)	10 20 30 40
Inner diameter (inch)	1.1
Outer diameter (inch)	Type I = 2.7, Type II = 3.1
Retention Efficiency	> 99.9% under muti-pass test
Maximum operating forward pressure	194 °F: 20 psi 140 °F: 40 psi 68 °F: 70 psi
Recommended replaceable pressure drop	35 psi
Maximum working temperature	194 °F
Sterilization	250 °F, 30 min, 10 times

Efficiency of Filtration

spec.	Retenion Efficiency (%)							
	0.2 micron	0.3 micron	0.5 micron	1.0 micron	5.0 micron	10 micron	20 micron	50 micron
AR0020	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0045	62.3	71.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0100	30.2	67.1	73.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0500	—	—	46.8	87.3	>99.9	>99.9	>99.9	>99.9
AR1000	—	—	—	53.9	81.5	>99.9	>99.9	>99.9
AR2000	—	—	—	—	59.3	86.9	>99.9	>99.9
AR5000	—	—	—	—	—	79.8	>89.9	>99.9

*Multi-pass Test

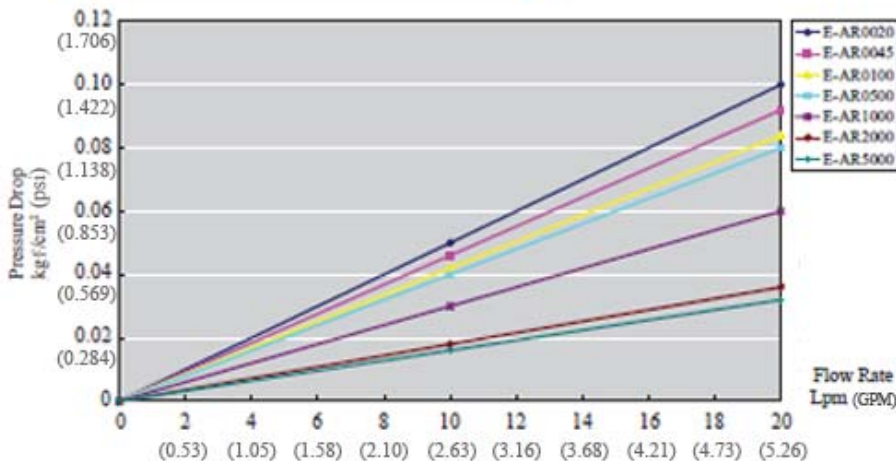
Type I Initial Pressure Drop



Micron Ratings

- AR0020 = 0.2
- AR0045 = 0.45
- AR0100 = 1
- AR0500 = 5
- AR1000 = 10
- AR2000 = 20
- AR5000 = 50

Type II Initial Pressure Drop



Micron Ratings

- E-AR0020 = 0.2
- E-AR0045 = 0.45
- E-AR0100 = 1
- E-AR0500 = 5
- E-AR1000 = 10
- E-AR2000 = 20
- E-AR5000 = 50

Product Codes						
E-	AR-	0045-	E-	0-	1-	B
Type		Micron Rating	O-ring	End Cap	Bag Length	Inner Core
(Blank) = Type 1 E =Type 2		0020 = 0.2 0045 = 0.45 0100 = 1 ...up to... 5000 = 50	E=EPDM N=Buna N S=Silicone V=VITON T=PFA encapsulated Viton	F=Double Open End 0=222/Flat 5=222/Fin 6=226/Flat 7=226/Fin A=213/213 B=213/Flat C=213/Fin	A=<10''(remark the total length) 1=10.0'' 2=20.0'' 3=30.0'' 4=40.0''	A=Not Pre-flushed B=Pre-flushed w/DI water

Example:

E-AR-0045-E-0-1-B